

SEQUENCE LISTING

<110> Anderson, Christen M.
 Davis, Robert E.
 Clevenger, William
 Wiley, Sandra Eileen
 Willer, Scott W.
 Szabo, Tomas R.
 Ghosh, Soumitra S.
 Moos, Walter H.
 Pei, Yazhong

<120> PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT),
 NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

<130> 660088.420D4

<140> US

<141> 2001-03-14

<160> 37

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 894

<212> DNA

<213> Homo sapien

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gccagcaaac	agatcagtgc	tgagaagcag	tacaaaggga	tcattgattg	tgtggtgaga	180
atccctaagg	agcagggctt	cctctccttc	tggaggggta	acctggccaa	cgtgatccgt	240
tacttcccca	cccaagctct	caacttcgcc	ttcaaggaca	agtacaagca	gctcttctta	300
gggggtgtgg	atcggcataa	gcagttctgg	cgctactttg	ctggtaacct	ggcgtccggt	360
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gcagtgcgag	ggctgctgtc	ctaccccttt	gacactgttc	gtcgtagaat	gatgatgcag	720
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gcaaaagacg	aaggagccaa	ggccttcttc	aaagggtgct	ggtccaatgt	gctgagaggc	840
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<212> DNA

<213> Homo sapien

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gccagcaagc	agatcactgc	agataagcaa	tacaaaggga	ttatagactg	cgtggtccgt	180
attoccaaag	agcaggaagt	tctgtccttc	tggcgcggta	acctggccaa	tgtcatcaga	240

tacttcccca	cccaggctct	taacttcgcc	ttcaaagata	aatacaagca	gatcttcctg	300
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cagtcagggc	gcaaagggaac	tgacatcatg	tacacaggca	cgcttgactg	ctggcggaag	780
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<212> DNA

<213> Homo sapien

<400> 3

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atccccaagg	agcaggcggt	gctgtccttc	tgagggggca	accttgccaa	cgtcattcgc	240
tacttcccca	ctcaagccct	caacttcgcc	ttcaaagata	agtacaagca	gatcttcctg	300
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ctggcagcgc	acgtgggaaa	gtcaggcaca	gagcgcgagt	tccgaggcct	gggagactgc	480
ctggtgaaga	tcaccaagtc	cgacggcatc	cggggcctgt	accagggcct	cagtgtctcc	540
gtgcagggca	tcatcatcta	ccgggcggcc	tacttcggcg	tgtacgatac	ggccaagggc	600
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cagtcggggc	gcaaaggagc	tgacatcatg	tacacgggca	ccgtcgactg	ttggaggaag	780
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<223> PCR Primer

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<210> 6

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 <213> Artificial Sequence

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<400> 7
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<210> 8
 <211> 43
 <212> DNA
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<220>
 <223> PCR Primer

<400> 8
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<210> 9
 <211> 44
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 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 9
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<210> 10
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sequence primer

<400> 10
 tatgccatag catttttatc c 21

<210> 11
 <211> 18
 <212> DNA

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<213> Artificial Sequence

<223> Sequencing primer

<400> 21
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<400> 22
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41

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 <213> Homo sapien

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 20 25 30

Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
 145 150 155 160
 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
 165 170 175
 Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
 180 185 190
 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
 195 200 205
 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
 210 215 220
 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
 225 230 235 240
 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
 245 250 255
 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
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<210> 32
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 <212> PRT
 <213> Homo sapien

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 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125

"400" 400

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 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
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 165 170 175
 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
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<210> 33
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<400> 33

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 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
 165 170 175
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220

Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
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 275 280 285
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
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<210> 34
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 <213> Artificial Sequence

<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

<400> 34
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 <223> Primer for PCR amplification of EYFP

<400> 36
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